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Chem. and E Indis. Chem

Beebe, C. W., and Frey, R. W.

Accelerated Aging Tests on Alum-Retanned Vegetable Leathers. Journal of the

American Leather Chemists Association, vol. 37, no. 11, pp. 539-43, November 1942.

Beebe, C. W., and Frey, R. W.

Physical Properties of Alum-Retained Vegetable Leathers. Journal of the American
Leather Chemists Association, vol. 37, no. 10, pp. 478-82, October 1942.

Beinhart, E. G.
Nicotiana Rustica in New Mexico. Science, vol. 94, no. 2449, pp. 538 and 539,
December 5, 1941. (No reprints are available.)

Beinhart, E. G.
Tobacco Research at the Eastern Regional Laboratory. Part I, Tobacco Leaf, vol. 77, no. 3982, pp. 6 and 29, June 14, 1941. Part II, Tobacco Leaf, vol. 77, no. 3983, pp. 12 and 29, June 21, 1941. (No reprints are available.)

Beinhart, E. G., and Willaman, J. J.

Tobacco Research at the Eastern Regional Research Laboratory. Catalyst, vol.
26, no. 6, pp. 55-60, September 1941. (No reprints are available.)

Bradshaw, M. A., and Mottern, H. H. Production of a Bland Sirup from Apples. Mimeographed August 1942. ACE-180.

Buck, R. E., Baker, G. L., and Mottern, H. H.

Pectinates Improve Frozen Fruits. Food Industries, vol. 18, no. 2, pp. 100-02,
134-35, February 1943.

Clarke, I. D. Conserving Hides; Salting and Shipping. Mimeographed September 1943. AIC-24.

Clarke, I. D. Conserving Hides; Skinning. Mimeographed September 1943. AIC-25

Clarke, I. D., Steiner, E. T., and Frey, R. W.

Effect of Age on the Size and Tamin Content of Chinese Chestnut Trees Grown in

Maryland. Journal of the American Leather Chemists Association, vol. 37,

no. 12, pp. 591-96, December 1942. (No reprints are available.)

Clarke, I. D., and Frey, R. W.
An Efficient Installation for Laboratory Extraction of Tanning Materials. Journal of the American Leather Chemists Association, vol. 38, no. 5, pp. 178-84, May 1943.

Copley, M. J., Eskew, R. K., and Willaman, J. J.
Problems in the Industrial Utilization of Tobacco. Chemical and Engineering
News, vol. 20, no. 19, pp. 1220-22, October 10, 1942.

Doherty, David G., and Ogg, Clyde L.

Modified Amino Nitrogen Apparatus for Insoluble Proteins. Industrial and
Engineering Chemistry, Analytical Edition, vol. 15, no. 12, pp. 751-53,
December 1943.

- Fein, M. L., and Fisher, C. H.

  Acetylation of Alkyl Lactates. Methyl and Ethyl Alpha-Acetoxypropionates.

  Industrial and Engineering Chemistry, vol. 36, no. 3, pp. 235-238, March 1944.
- Filachione, E. M., and Fisher, C. H.

  Lactic Acid Condensation Polymers. Preparation by Batch and Continuous Methods.

  Industrial and Engineering Chemistry, vol. 36, no. 3, pp. 223-228, March 1944.
- Filachione, E. M., and Fisher, C. H.

  Preparation of Methyl Alpha-Acetoxypropionate from Lactic Acid, Acetic Acid,
  and Methanol. Industrial and Engineering Chemistry, vol. 36, no. 5, pp. 472-475,
  May 1944.
- Filachione, E. M., Lengel, J. H., and Fisher, C. H.

  Pyrolysis of Lactic Acid Derivatives. Production of Phenyl and o-Tolyl Acrylate.

  Journal of the American Chemical Society, vol. 66, no. 3, pp. 494-496, March 1944.
- Fisher, C. H., Ratchford, W. P., and Smith, Lee T.

  Methyl Acrylate Production by Pyrolysis of Methyl Acetoxypropionate. Industrial
  and Engineering Chemistry, vol. 36, no. 3, pp. 229-234, March 1944.
- Fisher, C. H., Rehberg, Chessie E., and Smith, Lee T.
  Pyrolysis of Lactic Acid Derivatives. Preparation of Allyl and Methallyl
  Acrylates. Journal of the American Chemical Society, vol. 65, no. 5, pp. 763-67,
  May 1943.
- Frey, R. W., and Stuart, L. S.

  A Five-Year Cold Storage Experiment with Salted Calfskins. Journal of the
  American Leather Chemists Association, vol. 36, no. 11, pp. 650-57, November 1941.
- Frey, R. W., and Schnitzer, J. G.
  Leather. 1941 Encyclopaedia Britannica Book of the Year, pp. 398 and 399. (No reprints are available.)
- Frey, R. W., and Clarke, I. D.
  Tannin Content of Sitka Spruce Bark. Journal of the American Leather Chemists
  Association, vol. 36, no. 10, pp. 576-84, October 1941.
- Goresline, Harry E., and McFerlane, Vernon H.

  Handling Eggs for Drying. U. S. Egg and Poultry Magazine, vol. 50, no. 3,
  pp. 116-19, 140-44, March 1944. (No reprints are available.)
- Griffith, J. Q., Jr. (University of Pennsylvania), Couch, J. F. (Eastern Regional Research Laboratory) and Lindauer, M. A. Effect of Rutin on Increased Capillary Fragility in Man. Proc. of the Society for Experimental Biology and Medicine, vol. 55, pp. 228-229, 1944.
- Hills, C. H., White, J. W., Jr., and Baker, G. L. Low-Sugar Jellying Pectinates. Proceedings of the Institute of Food Technologists, pp. 47-58, 1942.
- Kelley, Edward G., and Wall, Monroe E.

  Carotene in Vegetable Wastes. Annual Report of the Vegetable Growers Association of America, pp. 62-68, 1942. (No reprints are available.)

- Kelley, Edward G., and Wall, Monroe E.

  Results of Vegetable Research at the Eastern Regional Research Laboratory.

  Pennsylvania Vegetable Growers' News, vol. 14, no. 2, pp. 54-58, May 1944.
- Kelley, Edward G., Wall, Monroe E., and Willaman, J. J.
  Vegetable Wastes as Animal Feedstuffs. Feedstuffs, vol. 15, no. 26, pp. 18-21, June 26, 1943. (No reprints are available.)
- Krewson, Charles F., and Couch, James F.

  The Hydrolysis of Nicotinonitrile by Ammonia. Journal of the American Chemical Society, vol. 65, no. 11, pp. 2256-57, November 1943.
- Krewson, Charles F.

  A Method for the Determination of Nicotinamide. American Journal of Pharmacy, vol. 11, no. 4, pp. 122-25, April 1943.
- Lothrop, R. E.

  The Eastern Regional Research Laboratory. Catalyst, vol. 26, no. 6, pp.23-26,
  September 1941. (No reprints are available.)
- Lothrop, R. E.

  Research on the Utilization of Farm Products. Transactions of the Peninsula
  Horticultural Society, Easton, Maryland, vol. 29, no. 5, pp. 124-32, 1939.
- McMeekin, T. L., and Warner, R. C.

  The Hydration of B-Lactoglobulin Crystals. Journal of the American Chemical Society, vol. 64, no. 10, pp. 2393-98, October 1942.
- Meiss, P. E., Treadway, R. H., and Smith, Lee T.
  White Potato Starches. Industrial and Engineering Chemistry, vol. 36, no. 2, pp. 159-63, February 1944.
- Morris, R. Henry, 3rd.

  Apple Sirup A Promising New Outlet for Cull Apples. Chemurgic Digest, vol. 3, no. 4, pp. 57 and 59, February 29, 1944. (No reprints are available.)
- Mottern, H. H., and Morris, R. H., 3rd.
  Bland Apple Sirup. Mimeographed January 1944. AIC-37.
- Mottern, H. H., and Morris, R. H., 3rd.

  Bland Apple Sirup. The Fruit Products Journal and American Food Manufacturer,
  vol. 23, no. 9, pp. 261-269, May 1944. (No reprints are available.)
- Mottern, H. H., Nold, Truman, and Willaman, J. J. Survey of Apple Juice Packed in 1940. Mimeographed September 1941. ACE-118.
- Mottern, H. H., Nold, Truman, and Hudnut, J. S.
  Survey of Apple Juice Packed in 1941. Mimeographed November 1942. ACE-186.
- Murray, C. W.

  Report on Arsenic. Journal of the Association of Official Agricultural Chemists, vol. 24, no. 2, pp. 336 and 337, May 1941. (No reprints are available.)
- Nutting, George C., Senti, Frederic R., and Copley, Michael J. Conversion of Globular to Oriented Fibrous Proteins. Science, vol. 99, no. 2573, pp. 328-329, April 21, 1944.

- Porter, W. L., and Willits, C. O.

  Moisture in Potato Starch. Journal of the Association of Official Agricultural
  Chemists, vol. 27, no. 1, pp. 179-194, February 1944.
- Rehberg, C. E., Faucette, W. A., and Fisher, C. H.
  Preparation of Methyl alpha-Acetoxypropionate by the Reaction of Lactic Acid
  with Methyl Acetate. Industrial and Engineering Chemistry, vol. 36, no. 5,
  pp. 469-472, May 6, 1944.
- Rehberg, C. E., Fisher, C. H., and Smith, Lee T.

  Preparation of Allyl and Methallyl Methacrylates by the Thermal Decomposition of Allyl and Methallyl a-Acetoxyisobutyrates. Journal of the American Chemical Society, vol. 65, no. 6, pp. 1003-06, June 1943.
- Riemenschneider, R. W., Turer, J., and Ault, Waldo C.
  Improvement Produced in the Stability of Lard by the Addition of Vegetable Oils.
  Oil and Soap, vol. 21, no. 4, pp. 98-100, April 1944.
- Riemenschneider, R. W., Turer, J., and Speck, R. M.
  Modifications of the Swift Stability Test. Oil and Soap, vol. 20, no. 9,
  pp. 169-71, September 1943.
- Riemenschneider, R. W., Turer, Jr., Wells, P. A., and Ault, Waldo C.
  Fatty Acid Monoesters of 1-Ascorbic and d-Isoascorbic Acids as Antioxidants for
  Fats and Oils. Oil and Soap, vol. 21, no. 2, pp. 47-50, February 1944.
- Rogers, J. S., and Beebe, C. W.
  Leaching and Tanning Experiments with Tara Pods. Journal of the American
  Leather Chemists Association, vol. 36, no. 9, pp. 525-39, September 1941. (No
  reprints are available.)
- Scanlan, John T., and Swern, Daniel.

  Action of Lead Tetraacetate upon Hydroxylated Fat Acids and Related Compounds.

  Part I. Hydroxylated Oleic Acid, Ethyl Oleate, and Oleyl Alcohol. Part II.

  Hydroxylated Ricinoleic Acid and Castor Oil. Journal of the American Chemical
  Society, vol. 62, pp. 2305-11, 1940.
- Senti, Frederic R., Eddy, C. Roland, and Nutting, George C.
  Conversion of Globular to Oriented Fibrous Proteins. I. By Heat and Mechanical
  Working. Journal of the American Chemical Society, vol. 65, no. 12, pp. 2473,
  December 1943.
- Smith, Lee T., Fisher, C. H., Ratchford, W. P., and Fein, M. L. Pyrolysis of Lactic Acid Derivatives. Conversion of Methyl a-Acetoxypropionate to Methyl Acrylate. Industrial and Engineering Chemistry, vol. 34, pp. 473-79, April 1942.
- Smith, Lee T., and Treadway, R. H.
  Preparation and Properties of Starch Acetates. Chemical and Engineering News, vol. 22, no. 10, pp. 813-817, May 25, 1944.
- Stearn, J. T., Makower, B., and Groggins, P. H.

  Lactic Acid as a Component of Synthetic Resins. Industrial and Engineering
  Chemistry, vol. 32, pp. 1335-42, October 1940. (No reprints are available.)

- Stirton, A. J., Hammaker, E. M., Herb, S. F., and Roe, E. T.

  Comparison of Fat-Splitting Reagents in the Twitchell Process. Oil and Soap,
  vol. 21, no. 5, pp. 148-151, May 1944.
- Stirton, A. J., Peterson, R. F., and Groggins, P. H.
  Sulfonated Acrylstearic Acids. Industrial and Engineering Chemistry, vol. 32,
  no. 8, pp. 1136 and 1137, August 1940. (No reprints are available.)
- Stitt, R. E., and Clarke, I. D.

  The Relation of Tannin Content of Sericea Lespedeza to Season. Journal of the American Society of Agronomy, vol. 33, no. 8, pp. 739-42, August 1941.
- Stuart, L. S., and Harris, T. H.

  Bactericidal and Fungicidal Properties of a Crystalline Protein Isolated from Unbleached Wheat Flour. Cereal Chemistry, vol. 19, no. 2, pp. 288-300, March 1942. (No reprints are available.)
- Stuart, L. S., and Frey, R. W.

  Curing Skins with Salt Containing Sodium Carbonate or Sodium Sulfate. Journal
  of the American Leather Chemists Association, vol. 36, no. 3, pp. 114-20,

  March 1941.
- Stuart, L. S., and Frey, R. W.

  Preliminary Evaluation of Chemicals for Use with Salt in Curing Hides and Skins.

  Journal of the American Leether Chemists Association, vol. 36, no. 7, pp. 384-99,

  July 1941.
- Swern, Daniel, Knight, H. B., and Findley, T. W.
  Purification of Oleic Acid, Methyl Oleate, and Oleyl Alcohol for Use as Chemical
  Intermediates. Oil and Soap, vol. 21, no. 5, pp. 133-139, May 1944.
- Swern, Daniel, Stirton, A. J., and Groggins, P. H.
  Azo Dyes from Oleic Acid. Oil and Soap, vol. 18, no. 11, pp. 222-24, November 1941.
- Swern, Daniel, Stirton, A. J., Turer, J. and Wells, P. A. Fatty Acid Monoesters of 1-Ascorbic Acid and d-Isoascorbic Acid. Oil and Soap, vol. 20, no. 11, pp. 224-26, November 1943.
- Wall, M. E., and Kelley, E. G.

  Determination of Pure Carotene in Plant Tissue. A Rapid Chromatographic Method.

  Industrial and Engineering Chemistry, Analytical Edition, vol. 15, no. 1,

  pp. 18-20, January 15, 1943.
- Walter, E. D.
  Isolation of Partheniol, Parthenyl Cinnamate, and Other Constituents from Guayule Resin. Journal of the American Chemical Society, vol. 66, no. 3, pp. 419-421, March 1944.
- Wells, P. A.

  New Industrial Uses for Tobacco Developed by Government Laboratories. Tobacco, vol. 112, no. 8, pp. 7 and 8, February 20, 1941. (No reprints are available.)

6-Publications Issued by the Eastern Regional Research Laboratory

- Willaman, J. J.
  - Research on Apples at the Eastern Regional Research Laboratory. Published in the Report of the Sixth Annual Meeting of the National Apple Institute, 1940. (No reprints are available.)
- Willaman, J. J.

What Else Can We Do with Vegetables? National Seedsman, vol. 7, no. 4, pp. 6, 7, and 44, October 1940. (No reprints are available.)

## Supplement

## Publications Issued by the Eastern Regional Research Laboratory

- Allen, Paul J., Naghski, J., and Hoover, Sam R.

  Decomposition of Guayule Resins by Microorganisms. Journal of Bacteriology, vol. 46, no. 6, pp. 559-572, June 1944.
- Couch, James F., and Krewson, Charles F. Rutin. Mimeographed July 1944 AIC-52.
- Fein, M. L., Ratchford, W. P., and Fisher, C. H.
  Preparation and Pyrolysis of Lactic Acid Derivatives. Production of betaAlkoxyethyl and Tetrahydrofurfuryl Acrylates. Journal of the American Chemical
  Society, vol. 66, no. 7, pp. 1201-1203, July 1944.
- Milleville, Howard P., and Eskew, Roderick K.

  Recovery and Utilization of Natural Apple Flavors. Mimeographed September 1944.

  AIC-63.
- Morris, R. H., 3rd, Colker, D. A., and Chernoff, M. F.
  Vegetable Wastes. Availability and Utilization. Mimeographed August 1944.
  AIC-51
- Naghski, Joseph, Beinhart, Ernest G., and Couch, James F.
  Fire-Cured Tobaccos. Phenol, Nicotine, and Bacterial Contents. Industrial
  and Engineering Chemistry, Ind. Ed., vol. 36, no. 6, pp. 556-559, June 1944.
- Naghski, Joseph, White, Jonathan W., Jr., and Hoover, Sam R.

  Aerobic Decomposition of Guayule (Parthenium Argentatum Gray). Journal of Bacteriology, vol. 48, no. 2, pp. 159-178, August 1944.
- Nichols, P. L., Jr., and Yanovsky, E.
  Allyl Ethers of Carbohydrates. I. Preparation and Polymerization of Tetra-Allyl alpha-Methyl Glucoside. Journal of the American Chemical Society, vol. 66, no. 10, pp. 1625-1627, October 1944.
- Rehberg, C. E., Faucette, W. A., and Fisher, C. H.
  Preparation and Properties of Secondary and Branched-Chain Alkyl Acrylates.
  Journal of the American Chemical Society, vol. 66, no. 10, pp. 1723-1724,
  October 1944.
- Rehberg, C. E., and Fisher, C. H.

  Preparation and Properties of the n-Alkyl Acrylates. Journal of the American

  Chemical Society, vol. 66, no. 7, pp. 1203-1207, July 1944.
- Sievers, A. F., and Clarke, I. D.
  Preliminary Studies on the Cultivation of American Sumac as a Source of Tannin.
  Journal of the American Leather Chemists Association, vol. 39, no. 8, pp. 293319, August 1944.
- Smith, Lee T., and Hamilton, R. M. Starch Adhesives. Chemical and Engineering News, vol. 22, no. 17, pp. 1482-1484, 1494-96, September 10, 1944.

- 2--Supplement -- Publications Issued by the Eastern Regional Research Laboratory
- Turer, J., and Speck, R. M.

  Determination of Fatty Acid Monoesters of 1-Ascorbic and d-Isoascorbic Acids in Fats and Oils. Industrial and Engineering Chemistry, Anal. Ed., vol. 16, pp. 464-465, July 15, 1944.
- Warner, Robert C.
  Separation of alpha- and beta-Casein. Journal of the American Chemical Society, vol. 66, no. 10, pp. 1725-1731, October 1944.
- Whittenberger, R. T.
  Oil Blue NA as a Stain for Rubber in Sectioned or Ground Plant Tissues. Stain
  Technology, vol. 19, no. 3, pp. 93-98, July 1944.
- Woodward, C. F., Badgett, C. O., and Kaufman, J. G. Chemical-Catalytic Liquid-Phase Oxidation of Nicotine, beta-Picoline, and Quinoline to Nicotinic Acid. Industrial and Engineering Chemistry, vol. 36, no. 6, pp. 544-546, June 1944.
- Woodward, C. F., Badgett, C. O., and Willaman, J. J.
  Catalytic Vapor-Phase Oxidation of Nicotine to Nicotinonitrile. Industrial
  and Engineering Chemistry, vol. 36, no. 6, pp. 540-544, June 1944.
- Woodward, C. F., Eisner, A., and Haines, P. G.
  Pyrolysis of Nicotine to Myosmine. Journal of the American Chemical Society,
  vol. 66, no. 6, pp. 911-914, June 1944.